

What is claimed is:

1. A method for displaying a pixmap across at least two raster sizes including a first raster size in a first displaying mode and a second raster size in a second displaying mode, comprising the steps of:

- 5           storing a pixmap containing a plurality of pixel lines;  
               detecting whether a displaying mode is in the first displaying mode or the second displaying mode; and  
               adjusting the pixmap according to the detected displaying mode.

10   2. The method of claim 1, further comprising the steps of:

- storing a first header set;  
               storing a second header set;  
               using the first header set to adjust the pixmap to fit the first raster size when the detected displaying mode is the first displaying mode; and  
 15            using the second header set to adjust the pixmap to fit the second raster size when the detected displaying mode is the second displaying mode.

3. The method of claim 2, wherein the first and second header sets contain a plurality of headers, the method further comprising the steps of:

- 20           chaining the headers in the first header set; and  
               chaining the headers in the second header set.

4. The method of claim 3, further comprising the steps of:

- 25           using each of the headers in the first header set to point to one of the pixel lines in the pixmap in the first displaying mode; and  
               using each of the individual headers in the second header set to point to one of the pixel lines in the pixmap in the second displaying mode.

5. The method of claim 4, further comprising the steps of:

- 30           using each of the headers in the first header set to select a number of pixels in each of the pixel lines in the first displaying mode; and

using each of the headers in the second header set to select a number of pixels in each of the pixel lines in the second displaying mode.

5 6. The method of claim 5, wherein the first displaying mode and the second displaying mode display a different number of pixel lines and a different number of pixels in each of the displayed pixel lines.

10 7. The method of claim 6, wherein the first displaying mode displays 480 pixel lines with each of the pixel lines containing 2096 pixels, and the second displaying mode displays 540 pixel lines with each of the pixel lines containing 1920 pixels.

15 8. The method of claim 6, wherein the first displaying mode is 2H mode and the second displaying mode is 2.14H mode.

9. A method for displaying a pixmap across at least two raster sizes including a first raster size in a first displaying mode and a second raster size in a second displaying mode, comprising the steps of:

storing a pixmap containing a plurality of pixel lines;

20 storing a first header set containing one header;

storing a second header set containing a plurality of headers;

detecting whether a displaying mode is in the first displaying mode or the second displaying mode; and

adjusting the pixmap according to the detected displaying mode.

25 10. The method of claim 11, further comprising the steps of:

using the first header set to adjust the pixmap to fit the first raster size when the detected displaying mode is the first displaying mode; and

30 using the second header set to adjust the pixmap to fit the second raster size when the detected displaying mode is the second displaying mode.

11. An apparatus for displaying a pixmap across at least two raster sizes including a first raster size in a first displaying mode and a second raster size in a second displaying mode, comprising:

means for storing a pixmap containing a plurality of pixel lines;

5 means for detecting whether a displaying mode is in the first displaying mode or the second displaying mode; and

means for adjusting the pixmap according to the detected displaying mode.

10 12. The apparatus of claim 11, further comprising:

means for storing a first header set;

means for storing a second header set;

means for using the first header set to adjust the pixmap to fit the first raster size when the detected displaying mode is the first displaying mode; and

15 means for using the second header set to adjust the pixmap to fit the second raster size when the detected displaying mode is the second displaying mode.

20 13. The apparatus of claim 12, wherein the first and second header sets contain a plurality of headers, the apparatus further comprising:

means for chaining the headers in the first header set; and

means for chaining the headers in the second header set.

14. The apparatus of claim 12, further comprising:

25 means for using each of the headers in the first header set to point to one of the pixel lines in the pixmap in the first displaying mode; and

means for using each of the individual headers in the second header set to point to one of the pixel lines in the pixmap in the second displaying mode.

30 15. The apparatus of claim 14, further comprising:

means for using each of the headers in the first header set to select a number of pixels in each of the pixel lines in the first displaying mode; and

means for using each of the headers in the second header set to select a number of pixels in each of the pixel lines in the second displaying mode.

16. The apparatus of claim 12, wherein the first displaying mode and the second displaying mode display a different number of pixel lines and a different number of pixels in each of the displayed pixel lines.

17. The apparatus of claim 16, wherein the first displaying mode displays 480 pixel lines with each of the pixel lines containing 2096 pixels, and the second displaying mode displays 540 pixel lines with each of the pixel lines containing 1920 pixels.

18. The apparatus of claim 16, wherein the first displaying mode is 2H mode and the second displaying mode is 2.14H mode.

19. An apparatus for displaying a pixmap across at least two raster sizes including a first raster size in a first displaying mode and a second raster size in a second displaying mode, comprising:

means for storing a pixmap containing a plurality of pixel lines;

means for storing a first header set containing one header;

means for storing a second header set containing a plurality of headers;

means for detecting whether a displaying mode is in the first displaying mode or the second displaying mode; and

means for adjusting the pixmap according to the detected displaying mode.

20. The apparatus of claim 19, further comprising:

means for using the first header set to adjust the pixmap to fit the first raster size when the detected displaying mode is the first displaying mode; and

means for using the second header set to adjust the pixmap to fit the second raster size when the detected displaying mode is the second displaying mode.